

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/552,914
Source: PCT
Date Processed by STIC: 06/06/2006

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/552,914

DATE: 06/06/2006

TIME: 10:22:32

Input Set : A:\14017-009US1.txt
 Output Set: N:\CRF4\06062006\J552914.raw

```

4 <110> APPLICANT: Clawson, Gary A.
5   Pan, Wei-Hua
6   Xin, Ping
8 <120> TITLE OF INVENTION: RNA Interference Compositions and
9   Methods
11 <130> FILE REFERENCE: 14017/009US1
13 <140> CURRENT APPLICATION NUMBER: US 10/552,914
14 <141> CURRENT FILING DATE: 2005-10-13
16 <150> PRIOR APPLICATION NUMBER: PCT/US2004/005400
17 <151> PRIOR FILING DATE: 2004-02-23
19 <150> PRIOR APPLICATION NUMBER: 60/449,066
20 <151> PRIOR FILING DATE: 2003-02-21
22 <160> NUMBER OF SEQ ID NOS: 55
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 19
28 <212> TYPE: DNA
29 <213> ORGANISM: Human papillomavirus
31 <400> SEQUENCE: 1
32 ccagaaaaguu accacaguu                                         19
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 19
36 <212> TYPE: DNA
37 <213> ORGANISM: Human papillomavirus
39 <400> SEQUENCE: 2
40 ccggaaaaguu accacaguu                                         19
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 19
44 <212> TYPE: DNA
45 <213> ORGANISM: Human papillomavirus
47 <400> SEQUENCE: 3
48 aacuguggua acuuucugg                                         19
50 <210> SEQ ID NO: 4
51 <211> LENGTH: 19
52 <212> TYPE: DNA
53 <213> ORGANISM: Human papillomavirus
55 <400> SEQUENCE: 4
56 aacuguggua acuuuccgg                                         19
58 <210> SEQ ID NO: 5
59 <211> LENGTH: 21
60 <212> TYPE: DNA
61 <213> ORGANISM: Human papillomavirus
63 <400> SEQUENCE: 5

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/552,914

DATE: 06/06/2006
TIME: 10:22:32

Input Set : A:\14017-009US1.txt
Output Set: N:\CRF4\06062006\J552914.raw

64 guuaccacag uuaugcacag a	21
66 <210> SEQ ID NO: 6	
67 <211> LENGTH: 21	
68 <212> TYPE: DNA	
69 <213> ORGANISM: Human papillomavirus	
71 <400> SEQUENCE: 6	
72 ucugugcaua acugugguaa c	21
74 <210> SEQ ID NO: 7	
75 <211> LENGTH: 11	
76 <212> TYPE: DNA	
77 <213> ORGANISM: Artificial Sequence	
79 <220> FEATURE:	
80 <223> OTHER INFORMATION: Cassette	
82 <400> SEQUENCE: 7	
83 guucaagacc c	11
85 <210> SEQ ID NO: 8	
86 <211> LENGTH: 9	
87 <212> TYPE: DNA	
88 <213> ORGANISM: Artificial Sequence	
90 <220> FEATURE:	
91 <223> OTHER INFORMATION: Cassette	
93 <400> SEQUENCE: 8	
94 uucaagacc	9
96 <210> SEQ ID NO: 9	
97 <211> LENGTH: 19	
98 <212> TYPE: DNA	
99 <213> ORGANISM: Human papillomavirus	
101 <400> SEQUENCE: 9	
102 ccggaaaagt accacagtt	19
104 <210> SEQ ID NO: 10	
105 <211> LENGTH: 21	
106 <212> TYPE: DNA	
107 <213> ORGANISM: Human papillomavirus	
109 <400> SEQUENCE: 10	
110 gtaccacag ttatgcacag a	21
112 <210> SEQ ID NO: 11	
113 <211> LENGTH: 19	
114 <212> TYPE: DNA	
115 <213> ORGANISM: Human papillomavirus	
117 <400> SEQUENCE: 11	
118 ccagaaaagt accacagtt	19
120 <210> SEQ ID NO: 12	
121 <211> LENGTH: 139	
122 <212> TYPE: DNA	
123 <213> ORGANISM: Artificial Sequence	
125 <220> FEATURE:	
126 <223> OTHER INFORMATION: Cassette	
128 <400> SEQUENCE: 12	
129 ggatccttcc gggctgatga gtccaaattgg acgaaacggt actcgagtag cgtccccgga	60

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/552,914

DATE: 06/06/2006

TIME: 10:22:32

Input Set : A:\14017-009US1.txt

Output Set: N:\CRF4\06062006\J552914.raw

130	aagttaccac agttgttgc ggagaattct ccgtcctgat gagtccggcc ggacgaaaca	120
131	actgagatct ttttctaga	139
133	<210> SEQ ID NO: 13	
134	<211> LENGTH: 139	
135	<212> TYPE: DNA	
136	<213> ORGANISM: Artificial Sequence	
138	<220> FEATURE:	
139	<223> OTHER INFORMATION: Cassette	
141	<400> SEQUENCE: 13	
142	ggatccacag ttgctgatga gtcccaattgg acgaaacggt actcgagtag cgtccaaactg	60
143	tgttaactt ccgggttgc ggagaattct ccgtcctgat gagtccggcc ggacgaaacc	120
144	cgaagatct ttttctaga	139
146	<210> SEQ ID NO: 14	
147	<211> LENGTH: 139	
148	<212> TYPE: DNA	
149	<213> ORGANISM: Artificial Sequence	
151	<220> FEATURE:	
152	<223> OTHER INFORMATION: Cassette	
154	<400> SEQUENCE: 14	
155	ggatcctggt aacctgatga gtcccaattgg acgaaacggt actcgagtag cgtcggttacc	60
156	acagttatgc acagatttgc ggagaattct ccgtcctgat gagtccggcc ggacgaaatc	120
157	tgtgagatct ttttctaga	139
159	<210> SEQ ID NO: 15	
160	<211> LENGTH: 139	
161	<212> TYPE: DNA	
162	<213> ORGANISM: Artificial Sequence	
164	<220> FEATURE:	
165	<223> OTHER INFORMATION: Cassette	
167	<400> SEQUENCE: 15	
168	ggatccgcac agactgatga gtcccaattgg acgaaacggt actcgagtag cgtctctgt	60
169	cataactgtg gtaaccttgc ggagaattct ccgtcctgat gagtccggcc ggacgaaagt	120
170	taccagatct ttttctaga	139
172	<210> SEQ ID NO: 16	
173	<211> LENGTH: 178	
174	<212> TYPE: DNA	
175	<213> ORGANISM: Artificial Sequence	
177	<220> FEATURE:	
178	<223> OTHER INFORMATION: Cassette	
180	<400> SEQUENCE: 16	
181	ggatcagctt cgagctctga tgagtccgtg aggacgaaac ggtacccgg accgtcagct	60
182	cgtacccatc tccccagaaa gttaccacag ttgttaattt atccgtcgac ggtatgttagat	120
183	ccgtcctgat gagtccgtga ggacgaaacg gatctgcagc ggtatgtatct ttttctaga	178
185	<210> SEQ ID NO: 17	
186	<211> LENGTH: 178	
187	<212> TYPE: DNA	
188	<213> ORGANISM: Artificial Sequence	
190	<220> FEATURE:	
191	<223> OTHER INFORMATION: Cassette	
193	<400> SEQUENCE: 17	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/552,914

DATE: 06/06/2006
TIME: 10:22:32

Input Set : A:\14017-009US1.txt
Output Set: N:\CRF4\06062006\J552914.raw

194 ggatcagctt cgagctctga tgagtccgtg aggacgaaac ggtacccggt accgtcagct	60
195 cgacctcaga tccaaactgtg gtaactttct gggtaattg atccgtcgac ggatgttagat	120
196 ccgtcctgat gagtcgtga ggacgaaacg gatctgcagc ggatgatctt tttctaga	178
198 <210> SEQ ID NO: 18	
199 <211> LENGTH: 21	
200 <212> TYPE: DNA	
201 <213> ORGANISM: Human papillomavirus	
203 <400> SEQUENCE: 18	
204 ttggagacta ctgtggagtt a	21
206 <210> SEQ ID NO: 19	
207 <211> LENGTH: 139	
208 <212> TYPE: DNA	
209 <213> ORGANISM: Artificial Sequence	
211 <220> FEATURE:	
212 <223> OTHER INFORMATION: Cassette	
214 <400> SEQUENCE: 19	
215 aagcttctcc aaactgatga gtccaaattgg acgaaacggt actcgagttac cgtctttgga	60
216 gctactgtgg agttattgtac ggagaattct ccgtcctgat gagtcgggcc ggacgaaata	120
217 actcagatct ttttctaga	139
219 <210> SEQ ID NO: 20	
220 <211> LENGTH: 139	
221 <212> TYPE: DNA	
222 <213> ORGANISM: Artificial Sequence	
224 <220> FEATURE:	
225 <223> OTHER INFORMATION: Cassette	
227 <400> SEQUENCE: 20	
228 aagcttggag ttactgatga gtccaaattgg acgaaacggt actcgagttac cgtctaactc	60
229 cacagtagct ccaaattgtac ggagaattct ccgtcctgat gagtcgggcc ggacgaaatt	120
230 tggaaagatct ttttctaga	139
232 <210> SEQ ID NO: 21	
233 <211> LENGTH: 183	
234 <212> TYPE: DNA	
235 <213> ORGANISM: Artificial Sequence	
237 <220> FEATURE:	
238 <223> OTHER INFORMATION: Cassette	
240 <400> SEQUENCE: 21	
241 ggatccttc gggctgatga gtccaaattgg acgaaacgtac gacattctgg tactcgagta	60
242 ccagaatgtc atcgccccca gaaagttacc acagttgttg agcgcaacga cgccggagaat	120
243 tctccgcgtc gttgcgtcc tggatgtacc ggccggacga aacaactgag atcttttct	180
244 aga	183
246 <210> SEQ ID NO: 22	
247 <211> LENGTH: 183	
248 <212> TYPE: DNA	
249 <213> ORGANISM: Artificial Sequence	
251 <220> FEATURE:	
252 <223> OTHER INFORMATION: Cassette	
254 <400> SEQUENCE: 22	
255 ggatccacag ttgctgatga gtccaaattgg acgaaacgtac gacattctgg tactcgagta	60
256 ccagaatgtc atcgccacac tggatgtacc ttctgggttg agcgcaacga cgccggagaat	120

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/552,914

DATE: 06/06/2006
TIME: 10:22:32

Input Set : A:\14017-009US1.txt
Output Set: N:\CRF4\06062006\J552914.raw

257	tctccgcgtc	ggtgcgtcc	tgtatgagtcc	ggccggacga	aaccagaag	atcttttct	180
258	aga						183
260	<210>	SEQ ID NO:	23				
261	<211>	LENGTH:	252				
262	<212>	TYPE:	DNA				
263	<213>	ORGANISM:	Artificial Sequence				
265	<220>	FEATURE:					
266	<223>	OTHER INFORMATION:	Cassette				
268	<400>	SEQUENCE:	23				
269	ggatcatcca	gctttggAAC	cctgtatgagt	ccgtgaggac	gaaacgtatga	cattctgctg	60
270	accagattca	cggtcacGAG	aatgtatcg	tcgggtccAG	gatccccAGA	aagttaccAC	120
271	agggttaat	tccaaGGGTC	tgcgcAACGA	cgacgtatGAG	gtaccacATC	gtcgctGTTG	180
272	cgcactgtatG	aggccGTGAG	gccgaaACCC	ttgacgcgtt	cctatgcggc	cgctctAGGA	240
273	tcttttcta	ga					252
275	<210>	SEQ ID NO:	24				
276	<211>	LENGTH:	252				
277	<212>	TYPE:	DNA				
278	<213>	ORGANISM:	Artificial Sequence				
280	<220>	FEATURE:					
281	<223>	OTHER INFORMATION:	Cassette				
283	<400>	SEQUENCE:	24				
284	ggatcatcca	gctttggAAC	cctgtatgagt	ccgtgaggac	gaaacgtatga	cattctgctg	60
285	accagattca	cggtcacGAG	aatgtatcg	tcgggtccAG	gatccaACTG	tggtaacttt	120
286	ctgggttaat	tccaaGGGTC	tgcgcAACGA	cgacgtatGAG	gtaccacATC	gtcgctGTTG	180
287	cgcactgtatG	aggccGTGAG	gccgaaACCC	ttgacgcgtt	cctatgcggc	cgctctAGGA	240
288	tcttttcta	ga					252
290	<210>	SEQ ID NO:	25				
291	<211>	LENGTH:	263				
292	<212>	TYPE:	DNA				
293	<213>	ORGANISM:	Artificial Sequence				
295	<220>	FEATURE:					
296	<223>	OTHER INFORMATION:	Cassette				
298	<400>	SEQUENCE:	25				
299	ggatcTTCC	gggCTGATGA	gtCCAATTGG	acgAAACGGT	actcgAGTAC	cgtccccGGA	60
300	aagttaccac	agttgttgac	ggagaattct	ccgtcctgtat	gagtccggcc	ggacgaaaca	120
301	actgagatcc	acagtGCTG	atgagtccaa	ttggacgaaa	cggtaCTCGA	gtaccgtcca	180
302	actgtggtaa	cTTCCGGGT	tgacggagaa	ttctccgtcc	tgtatgagtcc	ggccggacga	240
303	aacccGGAAG	atcttttct	aga				263
305	<210>	SEQ ID NO:	26				
306	<211>	LENGTH:	270				
307	<212>	TYPE:	DNA				
308	<213>	ORGANISM:	Artificial Sequence				
310	<220>	FEATURE:					
311	<223>	OTHER INFORMATION:	Cassette				
313	<400>	SEQUENCE:	26				
314	ggatcTTGGT	aacgctgtatG	agtccaaATG	gacgaaACGG	tactcgAGTA	ccgtccgttA	60
315	ccacagttat	gcacagAGTT	gacggagaAT	tctccgtcCT	gatgagtCCG	gccggacGAA	120
316	atctgtgaga	tccgcacAGA	gctgtatGAGT	ccaattggac	gaaacggtaC	tcgagtaccG	180
317	tcctctgtgc	ataactgtgg	taacgttGAC	ggagaattct	ccgtcctgtat	gagtccggcc	240

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/552,914

DATE: 06/06/2006

TIME: 10:22:33

Input Set : A:\14017-009US1.txt

Output Set: N:\CRF4\06062006\J552914.raw